

## Abstract

A method and compositions are provided for increased cerebral bioavailability of blood-born compositions by administering the composition of interest while increasing brain NO levels. This increase in NO levels may be accomplished by stimulating increased production of NO by eNOS, especially by administering L-arginine, by administering agents that increase NO levels independent of ecNOS, or by any combination of these methods. As NO is increased, cerebral blood flow is consequently increased, and drugs in the blood stream are carried along with the increased flow into brain tissue. By increased flow, the site of action will be exposed to more drug molecules. By stimulating increased NO production, administration of drugs that are not easily introduced to the brain may be facilitated and/or the serum concentration necessary to achieve desired physiologic effects may be reduced.

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